In The Claims:

11. (Amended) A method according to claim 1, wherein green liquor density is controlled on the basis of a total titratable alkali by applying the following equation:

D = (TTA+os)/kk,
where D is the green liquor density;
TTA is the total titratable alkali of the green liquor;
os is an offset; and
kk is a coefficient,
the offset being determined on the basis of the model.

22. (Amended) An apparatus according to claim 17, wherein the apparatus comprises means for controlling green liquor density on the basis of the total titratable alkali by applying the following equation:

D = (TTA+os)/kk,
where D is the green liquor density;
TTA is the total titratable alkali of the green liquor;
os is an offset; and
kk is a coefficient,
the offset being arranged to be determined on the basis of a model.